

October 18, 1991

Ms. Lynn M. Clune
Engineer
Waste Engineering and Enforcement Division
Department of Environmental Protection
165 Capitol Avenue
Hartford, CT 06106

FACILITY FOLD & MAINING ECEIVED

I.D. NOT DAGOLIDOR/
FILE LOC. R-112

OTHER ROMS # 2312

CI WASTE REGULATION SECTION

PCDA RECODDS CENTER

Re: RCRA Part B Application - NFPA Validation

Dear Ms. Clune:

We are transmitting to you one copy of the NFPA validation for the storage and handling of ignitable waste in the proposed Centralized Waste Storage and Transfer Facility. The validation was performed by Foehl Sherman, Inc. of Burlington, MA.

As stated in his letter Foehl Sherman's review was based in part on a set of Contract 3 drawings which have not yet been finalized. Consequently their code validation is interim, and are subject to finalization of Contract 3. Once the Contract is finalized, which we expect to occur in 3 to 4 weeks, Foehl Sherman will finalize their code validation.

Two exceptions to full compliance with NFPA codes have been noted by Foehl Sherman, Inc. The first exception pertains to providing containment from the storage tanks in the west half of the building. NFPA would prefer to see spilled liquids drained away from the tanks outside of the building. However for compliance with RCRA, we need to provide secondary containment for spilled liquids.

The second exception pertains to requirements with regard to tank vehicle loading and unloading facilities. Again, NFPA would prefer to have these operations take place outside of the building but for RCRA compliance, we would prefer to locate these activities inside in an area where spills can be contained.

Although these areas are not in strict compliance with NFPA, we believe that the environmental requirements should be given priority and that adequate protections have been incorporated into the design of the facility, such as automatic sprinklers, to render it safe.

Thank you for your cooperation and assistance. If you have any questions concerning this response, please contact Bryan Kielbania at 565-0903.

Sincerely,

R. C. Weiss

Director, Facilities & Services

RCW/BFK/lis

b-b1n

FOEHL SHERMAN Inc.

Consulting Fire Engineers

October 17, 1991 Project: 0048

Pratt & Whitney 400 Main Street East Hartford, CT 06108

Attention: Bryan F. Kielbania, Sr. Facilities Engineer

Subject: Centralized Waste Storage and Transfer Facility

NFPA Regulations Certification

Dear Mr. Kielbania:

As requested, we have reviewed the design documents for the captioned project with regard to compliance with National Fire Protection Association regulations. We have identified NFPA codes and standards which are involved with the storage of ignitable wastes; a list is attached here as Appendix A. A list of documents which were reviewed by us is attached here as Appendix B.

As portions of the documents provided to us were progress prints, this validation is, of necessity, interim in nature. Most issues which were identified will be reflected in the final project documents according to Loureiro Engineering Associates.

We find that the design documents appear to be substantially in compliance with the NFPA codes and standards listed in Appendix A except for the following items:

- 1. Provisions for drainage of liquid spills.
- 2. Fire separations and other requirements with regard to tank vehicle loading and unloading facilities.

We will finalize our review upon completion of the final project documents.

Yours truly:

Foehl Sherman Inc.

Rhilib R. Sherman, P.E.

Vice President

APPENDIX A

DOCUMENTS REVIEWED

Our review was based, and is limited to, the following documents which have been provided to us:

Specifications:

Site Work and Building Construction Contract 2 Mechanical and Electrical Contract 2 Draft specification Contract 3				5/17/91 5/17/91 10/2/91
Draw	ings:	•		
D-3-	Process Piping Schematic Tank	s 1 - 16		9/5/91
D-3-		Part B Permit Application Process Piping Schematic CWTP & Details		
L-2 L-3 L-4 L-5 L-6	Site and Location Plans Site Development Plan Utility Plan Electrical Plan and Misc Details Exterior Pipe Rack	Contract Contract Contract Contract	2 2 2	5/17/91 5/17/91 5/17/91 5/17/91 7/25/91
A-1 A-2 A-3 A-4 A-5 A-6 A-7	Floor Plan and Code Information Roof Plan and Details Exterior Elevations Bldg Sec, Finish Schd, Details Wall Sections Plan Details Int Elev, Doors Schd, Details	Contract Contract Contract Contract Contract Contract	2 2 2 2 2	5/17/91 5/17/91 5/17/91 5/17/91 5/17/91 5/17/91 5/17/91
S-6 S-9 S-10	Foundation Plan Roof Framing Plan Column Schedule Foundation Details Foundation Details Structural Details Containment Stair Details Mezzanine Framing Plan Structural Details	Contract Contract Contract Contract Contract Contract Contract Contract	2 2 2 2 2 2 3 3	5/17/91 5/17/91 5/17/91 5/17/91 5/17/91 5/17/91 10/1/91 10/1/91
S-12	Pipe Rack Framing Plan Structural Details	Contract Contract	3	10/1/91 10/1/91
M-1	Plumbing and Mechanical Room Plan and Details	Contract		5/17/91
M-2 M-3 M-4 M-5 M-6	Plumbing and Fire Prot Plan Plan - HVAC HVAC Details Sections and Details Process Piping Sch Tanks 1-16	Contract Contract Contract Contract	2 2 2 3	5/17/91 5/17/91 5/17/91 5/17/91 9/17/91
M-7 Process Piping Sch, CWTP & Det Contract 3			3	9/17/91

M-9	Piping Mech Rm and North Area Process Piping Plans Tanks 1-5	Contract Contract		9/26/91 9/17/91	
M-IO	Process Piping Sections & Details Tanks 1-5	Contract	3	9/17/91	
M-11 M-12	Process Piping Plans Tanks 6-9 Process Piping Sections & Details	Contract		9/17/91	
	Tanks 6-9	Contract	3	9/17/91	
M-13	Process Piping Plans Tanks 10-13	Contract		9/24/91	
M-14	Process Piping Sections & Details Tanks 10-13	Contract	3	9/26/91	
M-15	Process Piping Plans Tanks 14-16	Contract		9/25/91	
	Process Piping Sections & Details Tanks 14-16	Contract		9/25/91	
M-17	Process Piping Exterior Pipe Rack	Contract		10/1/91	
,	Troops riping broates tipe men			, _, -	
M-18	Process Piping Existing				
	Concentrated Waste Treatment Plant Process Ventilation Schematic	Contract	3	9/25/91	
	Tanks 1-9	Contract	3	9/18/91	
M-20	Process Ventilation Schematic			•	
	Tanks 10-16	Contract	3	9/18/91	
M-21	Process Ventilation Make-up Air				
	Heaters and Intake Details	Contract	3	9/19/91	
M-22	Process Ventilation and Suction				
M-22	Tanks 1-5	Contract	3	9/19/91	
M-23	Process Ventilation Tanks 1-5	Contract		9/19/91	
	Process Ventilation Plan Tanks 6-9			9/20/91	
	Process Ventilation Section		•	2, 20, 22	
	Tanks 6-9	Contract	3	9/20/91	
M-26	Process Ventilation Plan Tanks			. ,	
	10-13	Contract	3	9/27/91	
M-27	Process Ventilation Section				
	Tanks 10-13	Contract	3	9/27/91	
T-1	P & I Diagram Tank 1	Contract	3	9/9/91	
I-2	P & I Diagram Tank 2	Contract		9/10/91	
I-3	P & I Diagram Tank 3	Contract		9/10/91	
	P & I Diagram Tank 4	Contract		9/18/91	
	P & I Diagram Tank 5	Contract		9/11/91	
I- 6	P & I Diagram Tank 6	Contract		9/10/91	
I-7	P & I Diagram Tank 7	Contract	3	9/18/91	
I-8	P & I Diagram Tank 8	Contract	3	9/18/91	
I-9	P & I Diagram Tank 9	Contract	3	9/18/91	
I-10	P & I Diagram Tank 10	Contract	3	9/18/91	
I-11	P & I Diagram Tank 11	Contract		9/18/91	
	P & I Diagram Tank 12	Contract		9/19/91	
	P & I Diagram Tank 13	Contract		9/19/91	
	P & I Diagram Tank 14 Contract 3 9/18/91				
	P & I Diagram Tank 15	Contract		9/18/91	
	P & I Diagram Tank 16	Contract		9/18/91	
	P & I Diagram Pumps C,D,E	Contract		10/1/91	
1-55	Facility Computer System Layout	Contract	3	9/17/91	

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E-1	Power Plan	Contract	2	5/17/91
E-2	Lighting and Receptacle Plan	Contract	2	5/17/91
E-3	Electrical Details	Contract	2	5/17/91
E-4	Auxiliary Systems	Contract	2	5/17/91
E-5	One Line Diagrams and Details	Contract	2	5/17/91
E-6	Process Power System Details	Contract	3	8/5/91
	Wiring Diagrams	Contract	2	5/17/91
E-9	Instrumentation and Control Wiring			
	Tanks 1-9	Contract	3	10/1/91
E-10	Instrumentation and Control Wiring			
	Tanks 10-16	Contract	3	10/2/91

APPENDIX B

Applicable Codes and Standards:

As the scope of the review, as determined by the Department of Environmental Protection, is somewhat open ended, we have identified the NFPA codes and standards which appear to apply to this project. These are as follows:

MEDA	1-1987	Fire Prevention Code
	10-1988	Portable Extinguishers
	11-1988	Foam Extinguishing Systems
	13-1989	Sprinkler Systems
	16-1986	Deluge Foam-Water Systems
	16A-1988	Closed Head Foam-Water Sprinkler Systems
	20-1990	Centrifugal Fire Pumps
	24-1987	Private Fire Service Mains
	26-1988	Supervision of Water Supply Valves
	30-1987	Flammable and Combustible Liquids Code
	70-1990	National Electrical Code
	72-1991	Protective Signaling Systems
	72E-1987	Automatic Fire Detectors
NFPA	72G-1989	Notification Appliances for Protective Signaling
		Systems
	77-1988	Static Electricity
NFPA	80-1990	Fire Doors and Windows
NFPA	80A-1987	Protection of Buildings from Exterior Fire
	•	Exposures
NFPA	90A-1989	Air Conditioning Systems
NFPA	91-1990	Blower and Exhaust Systems
NFPA	231-1987	General Storage
NFPA	251-1985	Fire Tests of Building Construction and Materials
NFPA	252-1984	Fire Tests of Door Assemblies
NFPA	255-1984	Burning Characteristics of Building Materials
NFPA	256-1987	Tests of Roof Coverings
NFPA	258-1989	Tests to Determine Smoke Generation of Solid
		Materials
NFPA	497A-1986	Electrical Installations, Classification of Class
		I Hazardous Locations.
NFPA	1961-1987	Fire Hose
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